

# BLUE 4.4

## Read Me

Document Revision: 01

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## 1 SOFTWARE DESCRIPTION

This software provides an integrated development environment that enables you to use a personal computer to create a Human Machine Interface (HMI) user application. The HMI user application, used by the runtime software, can run on multiple platforms.

## 2 SYSTEM REQUIREMENTS (SCREEN EDITING SOFTWARE)

PC	Windows PC/AT compatible machine
CPU	8th Generation Intel(R) Core™ i3/i5 Processors or faster
Memory	8 GB or more
Available Disk Space	30 GB or more
Display	1280 x 720
Operating System	Windows 10 Pro (64-bit) with latest update Windows 11 Pro, Pro for Workstations, Pro Education, and Education with latest update Windows Server 2022 with the latest updates *1
Other non-operating-system programs	.NET Framework 4.8.0 full *2

\*1 The screen editing software installed on Windows Server 2022 does not support the simultaneous connection of multiple users.

\*2 When installing the screen editing software, .NET Framework Ver.4.8.0 full is automatically installed. For disk space requirements, visit the Microsoft website.

Note:

- This product must be installed and configured by qualified software installation personnel with administrator rights.
- The software installation file is configured with a digital signature. If any issue regarding the digital signature arises during installation, cancel the installation and contact customer support.

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## 3 ACCESS RIGHTS

### 3.1 Screen Editing Software

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You can install or uninstall the screen editing software with administrator privileges.

### 3.2 Runtime (IPC Series / PC/AT)

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You can install or uninstall the run time with administrator privileges.

When transferring project files, launch the run time with administrator privileges before transferring.

## 4 FOR SECURE APPLICATIONS

This section explains some points to securely configure applications.

Note: Security related messages appear in the Feedback Zone's [Security Warnings] tab. Review messages and take required corrective action to reduce your cybersecurity risk.

### 4.1 Cybersecurity Best Practices

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To help keep your Pro-face products secure and protected, we recommend that you implement the cybersecurity best practices.

Following the recommendations may help significantly reduce your company's cybersecurity risk.

For the recommendations, refer to the following URL:

<https://www.pro-face.com/trans/en/manual/1087.html>

### 4.2 To build a secure network for unauthorized access prevention

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- Build a communication environment using encrypted communications (ex. VPN).

- Check that the network is secured before communication is established and data is transferred through the Ethernet.
- Select a transfer option that is not based on Ethernet communication (ex. USB Cable or FileSystem). If you need transfer option based on Ethernet communication, we recommend to use IPsec.
- Open the port for data communication only when you use the communication service.
- Protect your PC with a firewall and make sure it is used on a trusted secure network.
- Install the display unit on a trusted secure network and protect the display unit with a firewall.

### 4.3 To prevent impersonation in Display Unit

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- Use the Security features.
  - Use the auto logout feature.
  - Give an appropriate security level for unlocking to limited users (allow only users with administrator rights to unlock, and so on).
- Password is not asked for the below operations:
  - External Device operation block - Upload (USB Storage/SD Card)
  - External Device operation block - Download (USB Storage/SD Card)
  - Display the Hardware Configuration

Set the security level for the Switches which are used for above operations.

- When using Web Viewer to connect to the display unit, do not touch the [\*\*\*] button to display the password. The displayed password will become visible to all connected display units and Web Viewer clients.

#### 4.3.1 When Using SP5000 Series Open Box (Windows 10 IoT Enterprise Model), IPC Series, or PC/AT

- Use runtime only on a trusted PC.
- Do not log in to Windows with an account that has administrator rights, except when transferring project files or performing other operations that specifically require administrator rights.
- Use the security features in Windows (set a password, use the auto-logout feature, etc.).
- Set secure passwords and security for the administrator account for your project.

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## 4.4 To protect information from alteration

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- Harden your PC following the best cybersecurity practices (antivirus, updated operating systems, strong password policies, Application Allow Listing software, etc.) using the following guideline:  
<https://www.pro-face.com/trans/en/manual/1087.html>
- Carefully manage your own data.
- Protect your project by adding a project password.
- Preventing Unauthorized Changes to a Project
- When using transfer option based on USB Cable or Ethernet Cable, enable [Security Setting] in [Transfer Method].
- Do not execute screen editing software with Windows administrator rights.
- Use screen editing software only on a trusted PC.

## 5 LICENSE / REGISTRATION

Please refer to Help from the Schneider Electric HMI License Manager.

## 6 TOOLS

You can distribute the following tools installed in the [Tools] folder.

- Export File Validation Tool
- User Management Tool

## 7 WHAT'S NEW

### 7.1 Hardware Support

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ST6000 2nd Gen Series

- ST6000 2nd Gen Series is now supported.

## 7.2 Driver Support

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- The following drivers are now supported.
  - OPC Foundation - OPC UA Connection
  - Schneider Electric – XV USB Tower Light
- The following drivers have been updated to support secure communication.
  - Siemens AG – TIA Portal Ethernet

## 7.3 New Features

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### New Parts

- The following part is now supported.
  - PDF Viewer

### Project Transfer via FTP Server

- You can now use a BML file (used for file system transfer) saved on an FTP server for project transfers.

### Self-signed Certificate Generation

- You can now generate a self-signed certificate in the screen editing software. This certificate is used to import symbols from an OPC UA server to the screen editing software.

### Application Settings

- The [AutoSave] feature is now available, which can prevent data loss.

### Cybersecurity Enhancement

- Integrity checks are now automatically performed when opening project and compound object files to help detect unauthorized modifications. Warnings are also displayed when attempting to open, browse, or import unusually large files, helping to prevent performance issues and unintended operations.

## 7.4 Improvement Features

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- Secure communication via TLS can now be used for project transfers over Ethernet with IPC Series and PC/AT.
- In addition to TXT and CSV files, you can now export and import variables to and from Excel files in the screen editing software.
- The [Image] or [Image File] property of the following objects now support the SVG file format, in addition to PNG.
  - Image
  - Address Display
  - CheckBox
  - Date/Time Display
  - Lamp
  - N-State Lamp
  - Numeric Display
  - Radio Button
  - String Display
  - Switch
  - Time Display
  - Toggle Switch
  - Screen
  - Folder
- When using IPC Series or PC/AT, you can now set up to 9 different COM ports for serial drivers.
- You can now enable additional Web Viewer clients by purchasing and activating an add-on license using the HMI License Manager.
- Web Server and Web Viewer now supports HTTPS for a more secure connection.

## 8 FIXED LIMITATIONS

### 8.1 Screen Editing

HMIIMG-24634	(Screen Editing Software) The Zelio Logic Smart Relays driver has been hidden because it is not supported in BLUE.
HMIIMG-26234	(Screen Editing Software) Fixed an issue where importing from External Devices a CSV file with multidimensional array variables, such as user-defined types, could result in increased memory consumption and CPU usage. This caused the screen editing software's import process to take several minutes to complete.
HMIIMG-26243	(Screen Editing Software) Fixed an issue where importing from External Devices a CSV file with multidimensional array variables, such as user-defined types, could result in increased memory consumption and CPU usage. This caused the screen editing software's import process to take several minutes to complete.
HMIIMG-26538	(String Display) Fixed an issue so the Display Characters property of a String Display can now be bound to a variable.
HMIIMG-28480	(Variables) Fixed an issue where importing a structure that included arrays displayed the string value of the array's first element only.

## 8.2 Display Unit Operation

HMIIMG-25442	(Shape) Fixed an issue where setting a non-zero number of decimal places in the label of a [Circle Scale] object caused digits after the decimal point to display incorrectly.
HMIIMG-28014	(File Manager) Fixed an issue where the File Manager object would display "Processing" and become unresponsive when the Folder Visibility property was OFF.
HMIIMG-26480	(Runtime) Fixed an issue so that BLUE Runtime can start even when installed in a path that uses multi-byte characters.

## 8.3 Communication Driver

HMIIMG-25932	(OPC UA Client) Fixed an issue where sessions on the OPC UA server may remain after downloading a project file multiple times from the screen editing software.
HMIIMG-20860	(Schneider Electric - Machine Expert Network driver) Fixed the issue where accessing any element except the first element in an array variable generated the COM00056 error and caused problems with communication.

## 8.4 Cybersecurity

HMIIMG-24049	<p>The following third-party components (open source or proprietary) have been updated/removed to address cybersecurity vulnerabilities.</p> <p>-Chromium, CVE-2025-4664, CVE-2025-6558, CVE-2025-10585, CVE-2025-6554, CVE-2025-14174, CVE-2025-13223</p> <p>-FreeType, CVE-2025-27363</p>
HMIIMG-26062	

## 9 LIMITATIONS

This section lists the limitations that are applicable to both the Screen Editing Software and Runtime.

### 9.1 Installer

HMIIMG-9134	(Screen Editing Software) Do not install the screen editing software in a path with Unicode characters. Select a path without any Unicode characters.
HMIIMG-20159	(Screen Editing Software) While using screen editing software or runtime and you try to uninstall it, the uninstall is not possible if you select the [Do not close applications (restart may be required)] option. Please close the screen editing software or runtime before uninstalling the software.
HMIIMG-20811	(Screen Editing Software) If Visual Studio's Visual C++ re-distribution package is not installed beforehand, the reboot dialog box displays during the installation of the screen editing software. However, the installation will not resume after the computer restarts. Please install the screen editing software again.
HMIIMG-21285	(Runtime) Repeated installs and uninstalls of the runtime without restarting your computer may generate many files in the temporary folder, which could consume a lot of disk space. To resolve this, delete the files in the temporary folder or restart the computer after installing or uninstalling.
HMIIMG-23097	(Screen Editing Software) Windows has a default maximum path length of 260 characters. If the installation folder path exceeds 70 characters, the installation may fail. To avoid issues, use either the default or shorter installation path.

## 9.2 Screen Editing

HMIIMG-14578	(Screen Editing Software) Windows 8.1 and Windows Server 2012 R2 are not a supported operating system for the screen editing software. The screen editing software can be still installed, but it will not launch successfully.
-	(Screen Editing Software) In a screen, when there is an error in a navigation switch property, the screen editing software shows an error. In this scenario, the error window cannot direct you to the location of the error. Please check the [Source], [Path] and [Property] in the error window and find it manually.
HMIIMG-14754	(Screen Editing Software) The error message count in the error window may be different between the Block mode and Text mode for scripts.
-	(Project File Conversion) Before opening a project file in this version, refer to the user documents. From the Manual top page, click the [Feature Guide] icon and in the table of contents select [Before Use] and then [Notes of Project File Conversion].
HMIIMG-3101	(Content Display) The width and height of a content display and referenced content may not be correct when the values are referenced from other properties or script.
HMIIMG-337	(Font) Chinese_Simplified_GB2312_Gothic will not be supported in next version, nor in later versions. Project files that use this font from previous versions will be converted to Chinese_Simplified_GB18030_Gothic
HMIIMG-10595	(Script) When using Search and Replace in Text mode of the script editing screen, word searches containing some special characters ('\$','^','*', etc.) may not work properly.
HMIIMG-9909	(Script) When the script editing screen is in Text mode, the replace operation on text mode scripts from the [References] window does not work. Instead, use the find and replace operation in the script editing screen.
HMIIMG-3391	(Trigger / Operation) An error does not occur even if you set one of the following unsupported objects on a Touch trigger. -Alarm Summary -Hardware Configuration -Ingredient Viewer -Picture Display -Web Browser -All Layout Objects -Screen / Content -Group Object
HMIIMG-8160	(Alarm) Script cannot change the alarm message. On the screen editing software, an error occurs when you create a script that changes the alarm message.
HMIIMG-6850	(Variables) Do not import a variable file with a variable named "Structure".
-	(Symbol Link) The following data types are either not supported or they are converted to another data type during Symbol Link import: Not Supported

	<p>-ENUM -INTERFACE Converted to a primitive type of the source -SUBRANGE -POINTER TO -REFERENCE Converted to Structure -UNION -FUNCTION_BLOCK</p>
-	(Symbol Link) NamedBasicType in Rockwell L5K File is imported as String type in Symbol Link.
-	(Symbol Link) When importing a SoMachine Basic Modbus Symbol file (.SMBP), variables associated with registers %IWS and %QWS do not import correctly.
-	(Transfer) In broken mode, you cannot use File System transfer to upgrade the run time before version 3.1.100.
HMIIMG-3294	(Transfer) Do not press [ALT] key during a transfer operation. Pressing the [ALT] will sometimes cause the transfer operation to fail.
-	<p>(IPC Series and PC/AT) When using run time version 3.1 or earlier, you cannot transfer project files from version 3.1 Service Pack 1 or later. If you transfer the project file in the above condition, the following error message appears in the screen editing software. [Unable to update using download operation. Use the installer to update run time to the latest version.] In order to transfer, the run time must be re-installed with the same version, or later, as the screen editing software. Install the run time from the following path on the installation DVD. "BLUE_Setup\BLUERuntime\BLUERuntime.exe" Installing the run time erases any previously transferred project files. After installation, transfer the project files again. If .NET Framework is not already installed in the run time installation destination, or its version is older, .NET Framework is also installed. After .NET Framework is installed, the installation destination is restarted. When installing the run time, there is not need to uninstall the previously installed run time.</p>
HMIIMG-17096	(Variables) In the Screen Editing Software, when a long folder name is selected as the destination for exported variables, recipes, data logging and languages, even though the software may only show a shortened folder name, the data is exported to the selected path.
HMIIMG-19644	(Symbol Link) XVM symbol files that contain encrypted Level="128" cannot be imported correctly. Remove the line 'crypted Level="128".'
HMIIMG-19416	(Project Conversion) When opening a version 3.4 or earlier project file with the latest Screen Editing Software, the project data may be damaged and some scripts may not display. To correctly display scripts, make small changes such as inserting a carriage return to the scripts.
HMIIMG-16288	(Variables) The display unit cannot correctly display variables with an array index that exceeds 2147483647.

HMIIMG-19920	(Screen Editing Software) Simultaneously launching different versions of the Screen Editing software when transferring the project file could cause the incorrect runtime version to appear in the [Download Manager] dialog box. Do not simultaneously launch different versions of the Screen Editing software during transfer.
HMIIMG-19269	(Symbol Link) Symbol files that contain the same name as other variable or folder names cannot be imported. Please change there is no duplication of names.
HMIIMG-18446	(Screen Editing Software) The Screen Editing Software creates temporary files in the temporary folder (*), which consumes system memory. To release this memory, delete these temporary files manually. *C:\Users\ <user name="">\AppData\Local\BLUE\</user>
HMIIMG-26896	(Language Table) Ensure that the ID in the language table does not exceed 65,535 when language text is used in any binding. Exceeding this limit may cause the screen editing software to crash if a language binding is created during the import process.

### 9.3 Display Unit Operation

HMIIMG-1198	(Hardware Configuration Screen) When restarting the run time by using an operation in the Hardware Configuration screen, the status of external storage may not be updated. When that happens, cycle the power on the display unit.
HMIIMG-3272	(Hardware Configuration Screen) When implementing a filter in the filter setup screen [Filter Simplified] with the Operation Log Screen in a Hardware Configuration, sometimes items do not display correctly.
HMIIMG-9202	(Hardware Configuration Screen) In the Hardware Configuration screen, the Scan Control menu for up to 32 devices is displayed for each driver. If you cannot change the scan control from the Hardware Configuration screen, use the equipment source property '.ScanOffControl' to change the scan control.
HMIIMG-2768	(Keypad) While the keypad is displayed, reverse display may not show properly for rapid touches. This is only a display issue and values are written properly.
HMIIMG-10937	(Text Box) When using the Bold attribute in a Text Box object, the thickness of text may differ between the screen editing software and the display unit.
HMIIMG-3157	(Alarm Summary) You can display up to 146 items in the Alarm Summary part's filter setup screen [Filter Simplified]. When there are more than 146 items, narrow down the list by either using the [Search] field or the [Filter Detailed] settings.
HMIIMG-3272	(Alarm Summary) When implementing a filter in the filter setup screen [Filter Simplified] with the Alarm Summary part, sometimes items do not display correctly.

HMIIMG-7465	<p>(Numeric Display) In a Numeric Display part, if you use a source property together with a converter for the [Current Value], the [Format] and [Decimal Places] properties of the Numeric Display part are not applied even though you can set these properties. Instead of these properties, the settings in the converter properties apply. The target converters are as follows.</p> <ul style="list-style-type: none"> <li>- Unit</li> <li>- Scale</li> <li>- Expression</li> </ul> <p>The above operation is correct. In future versions, in the above case the [Format] and [Decimal Places] properties of the Numeric Display part will be disabled.</p>
HMIIMG-9007	<p>(Numeric Display) When setting the Prefix or Suffix in [Arabic_Gothic] or [Hebrew_Gothic] font, the Prefix or Suffix characters display in the wrong order in the display unit.</p>
HMIIMG-9613	<p>(String Display) Do not enable [Display text as *] on a String Display part with IME Japanese input. The currently stored string is displayed while typing characters. If you want to use the [Display text as *] feature, design a mechanism to clear the string before starting input.</p>
-	<p>(Web Browser) The Web browser part no longer supports TIFF and MNG image file formats.</p>
HMIIMG-439	<p>(Trigger / Operation) When animation or change in visibility hides a pressing object, Touch trigger (Release or Click) does not occur during that. The triggers operate as if the object is not hidden.</p>
-	<p>(Trigger / Operation) When using the [File Management] Operation, if the file or folder name uses non-ASCII characters, the file or folder name will not display correctly in the [Confirmation Message] displayed by the [File Management] Operation.</p>
HMIIMG-14432	<p>(Trigger / Operation) When using the [Operation Result] operation, you may not get the correct result if the specified operation fails.</p>
HMIIMG-3316	<p>(Logging) If a data logging operation occurs while a [File Management] Operation is in progress, sometimes data may not be logged depending on the logging frequency.</p>
-	<p>(Network) If you set an IP address that duplicates another device on the local network in operation, or if you connect a device with an IP address that duplicates the panel to the local network, you cannot detect duplicating IP addresses.</p> <p>Only at runtime startup, the runtime check the IP address of the device on the local network and a system error occurs if there is duplication with the panel. After changing the IP address of the panel, the runtime will be rebooted, so please check whether system error has occurred after rebooting.</p>
HMIIMG-9614	<p>(Web Viewer) If a project transfer operation fails, the Web Viewer license is removed. Activate Web Viewer again on the display unit with the same license keycode.</p>
HMIIMG-15921	<p>(Web Viewer) Pipe objects with [Shadow] enabled and either completely horizontal or completely vertical may not display correctly in the Web Viewer when run on iOS and iPadOS.</p>

HMIIMG-438	(IPC Series and PC/AT) When using multibyte characters for file or folder names for logging, operation log, and alarm export destinations, the system locale for the operating system must be set appropriately.
HMIIMG-438	(IPC Series and PC/AT) When using multibyte characters for the file or folder name for an Image Display part's image save destination, the system locale for the operating system must be set appropriately.
HMIIMG-9134	(IPC Series and PC/AT) Do not install the runtime in a path with Unicode characters. Select a path without any Unicode characters.
HMIIMG-3178	(External Storage (SDCard / USBStorage)) While USB storage is being continuously accessed, even though you eject the USB device, it may not work. Provide a function to either interrupt access to USB storage or change the storage destination.
HMIIMG-16785	(Content Display, Slide Content Display) If you place a Content Display object or Slide Content Display object so it is angled and its content includes a Dropdown List, the items in the Dropdown List may not appear.
HMIIMG-8313	(File Manager) The [Title Vertical Alignment] and [Body Vertical Alignment] for the [Column] property of a File Manager object do not work correctly.
-	(Web Browser) You cannot use the WebViewer in the Web Browser object. Please use a Web browser that meets the operating requirements as listed in the Feature Guide of the documentation.
HMIIMG-19216	(Trigger / Operation) When an object's fill type is "Radial Gradient", the object does not change if the gradient ColorStop value is changed using a script.
HMIIMG-9768	(Text Box) If you use the rich text tag to set the background color for a TextBox that is configured with the Italic attribute, the background will not be italicized.
HMIIMG-20881	(External Storage (USBStorage)) The recipe operation will not work correctly if you eject the USB memory and then reinsert it. In this case, reload the recipe.
HMIIMG-1773	(Screen / Content) The display between the screen editing software and runtime may not exactly match. Check the screen display in simulation before transferring the project file to the target machine.
HMIIMG-22979	(Trigger / Operation) If the value of the same PLC variable is changed multiple times in the same section of a script, the value will not update immediately. Instead, apply changes to an internal variable or create a separate script that is triggered by a [Value Change].
HMIIMG-23418	(Compound Object) When using a String type custom property in a Compound Object, the Screen Editing software validates the string length by the number of characters. The Runtime validates the string length by the number of bytes. As a result, when entering multi-byte characters at run time, the number of characters you can enter will be less than the maximum number of characters set in the Screen Editing software.

HMIIMG-24839	(System Error) If the Equipment name exceeds 100 bytes, it is truncated to 100 bytes in the Hardware Configuration system log.
HMIIMG-20198	(Converter) Using unsupported expressions such as "true + 1" in the Expression Converter or in a script causes the Runtime to behave incorrectly. These types of expressions are not supported.
-	(Trigger / Operation) When using the [Launch Application] operation in a script, the [Prevent Multiple Instance] setting and other similar options cannot be used if the target application is minimized. To avoid this, move the application to the background.
HMIIMG-27435	(SP5000 Series Open Box) On the SP5000 Series Open Box, if the alarm's [Save in] property is set to [SRAM] and there are many alarms registered, the HMI may freeze for a few seconds when the [Alarm Group] > [Acknowledge] operation is executed. Change [Save in] to [USB storage].
HMIIMG-26475	(Operation Log) If an operation is run immediately after the HMI starts up, the operation log may record other actions before "RuntimeAction ([Function]) - Boot ([Sub Information])".
HMIIMG-23612	(Web Viewer) When a screen contains a large number of parts or objects and the [Navigation Type] is either [Left] or [Icon], in Web Viewer the screen may display the navigation buttons. Click the refresh button to update the screen.
HMIIMG-26935	(OPC UA Server) The certificate file is deleted when using the project transfer methods below. - File System transfer - BML self-download After transferring and rebooting, the OPC UA Server automatically generates a new certificate. Please register this certificate with connected OPC UA Clients again. This behavior will be updated in a future version. The certificate is not deleted with Ethernet or USB Cable methods.
HMIIMG-28363	(Web Viewer) If a folder contains only a master screen, you may not be able to operate it in Web Viewer. As a workaround, create one or more screens in the folder.
HMIIMG-28719	(Web Viewer) If you use an SVG with multiple path elements, the Animation - Fill Level may be different between the Web Viewer and the display unit. When setting the [Fill Level], please use a Path object created from an SVG with a single element.

## 9.4 Communication Driver

HMIIMG-3263	(OPC UA Server) When using the OPC UA server function, on first starting up the display unit generates a server certificate. On first connecting to the server, the OPC UA client verifies the server's certificate. As the server certificate is renewed in the following cases, the OPC UA client may have to check the server certificate again. -In the Hardware Configuration screen, from the [OPC UA Server] menu the
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	<p>command [Regenerate Certificate] is selected.</p> <p>-Transfer via File System (This issue does not arise with Ethernet and USB cable transfer.)</p>
HMIIMG-7247	<p>(SP5000X Series and SP5000 Series Power Box / Open Box) When using CANopen Slave and TIA Portal Ethernet drivers at the same time, do not add any more drivers. Additional drivers could interfere with CANopen Slave communication.</p>
HMIIMG-1065	<p>(ST6000 Series) Flow control XON/XOFF is not available.</p>
HMIIMG-15528	<p>(Driver) When using the Schneider Electric - Machine Expert Network driver, if an array structure has elements with variable names such as 'X' or 'Y', the runtime may not communicate properly when using these variables.</p>
HMIIMG-26995	<p>(Siemens AG - TIA Portal Ethernet) The TIA Portal driver does not support external devices using the following firmware versions.</p> <p>When connecting to the HMI, the firmware version must be earlier than the versions listed below:</p> <ul style="list-style-type: none"> <li>- S7-1200 (firmware version 4.7 or later)</li> <li>- S7-1500 (firmware version 4.0 or later)</li> </ul>
HMIIMG-26789	<p>(OPC UA Client) If the variable lists on the OPC UA server and client do not match, a communication error will occur. Ensure that the variable lists match.</p>
HMIIMG-26935	<p>(OPC UA Client) The certificate file is deleted when using the project transfer methods below.</p> <ul style="list-style-type: none"> <li>- File System transfer</li> <li>- BML self-download</li> </ul> <p>After transferring and rebooting, the OPC UA Client automatically generates a new certificate. Please register this certificate with the target OPC UA Server again. This behavior will be updated in a future version.</p> <p>The certificate is not deleted with Ethernet or USB Cable transfer methods.</p>
HMIIMG-27056	<p>(OPC UA Server) In the OPC UA server settings, when configuring multiple [Certificate File Path] entries for [Trusted Certificates] or [Issuer Certificates], specify different file names for each entry.</p> <p>The OPC UA client cannot communicate properly if you specify files with the same name.</p>
HMIIMG-28341	<p>(OPC UA Server) If the OPC UA server publishes more than 4,000 variables, it may take some time before they become accessible from an OPC UA client. For large numbers of variables, please wait up to 10 minutes and try accessing them again.</p>
HMIIMG-26144	<p>(Siemens AG - SIMATIC S7 MPI Direct) On the ST6000 2nd Gen series, although you can configure the Siemens AG SIMATIC S7 MPI Direct Driver in the screen editing software, a communication error may occur when displaying a screen with many objects since this driver is not yet officially supported.</p>
-	<p>(Schneider Electric - XV USB Tower Light) If you use the [Schneider Electric XV USB Tower Light] driver on the STM6000 series, there may be unstable behavior when the USB Tower Light is connected directly to the display unit. As a workaround, connect a powered USB hub between the STM6000 series and the USB Tower Light.</p>

HMIIMG-28559	(Schneider Electric - XV USB Tower Light) At run time, if you unplug the USB Tower Light's USB cable from the display unit, communication will not recover even if you plug it back in. To restore communication, please restart the run time.
--------------	--

## 9.5 Cybersecurity

-	(Cybersecurity) Open only trusted project files in the screen editing software.
---	---

## 10 INSTALLER INTEGRITY VERIFICATION

When you download the installer from our web site or Schneider Electric Software Update, you can get the SHA256 of the installer. To validate, follow the steps below.

Step 1 : Go to Windows Start menu command box and type 'PowerShell', it opens the Windows PowerShell prompt.

Step 2 : Use 'Get-FileHash' command followed by the file path to calculate the Hash of a file.

```
Get-FileHash 'C:\Users\Public\Downloads\Schneider Electric\Software
Update\Downloads\installer executable file name' (e.g. Soft_BLUE64_V34.exe)
```

Step 3 : Press Enter

This results in output similar to the example below:

```
Get-FileHash 'C:\Users\Public\Downloads\Schneider Electric\Software
Update\Downloads\installer executable file name'
```

```
Algorithm      Hash
Path
```

```
-----      ----
```

```
SHA256
BCE70FCF3AA21663F828CF9244102533592F5721B10D6ABA1C050A5B815076EB
C:\Users\Public\Downloads\...:
```

Step 4 : Compare the calculated SHA256 hash value with the original hash value shown in the software updates.

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Module	Version	Licensing	License Text
QT	5.1.1	LGPL V2.1	Refer the section 11.17
Lua	5.4.7	MIT	Refer the section 11.1
LuaPlus	5.4	MIT	Refer the section 11.1
SQLCipher	4.6.0	BSD with copyright	Refer the section 11.2
OpenSSL	1.1.1w	OpenSSL / SSLeay	Refer the section 11.3
mapm	4.9.5a	Free with copyright	Refer the section 11.4
libpng	1.6.37	libpng license	Refer the section 11.5
Anthy	9100h	LGPL	Refer the section 11.25
libxml2	2.9.4	MIT	Refer the section 11.6
ipsec-tools	0.8.2+patches	BSD	Refer the section 11.7
rxl/json.lua	0.1.2	MIT	Refer the section 11.24
Protocol Buffers	2.6.1	BSD	Refer the section 11.8
luafilesystem	1.8.0	MIT	Refer the section 11.26
libcurl	8.11.1	The curl license	Refer the section 11.27
pcre	8.45	BSD	Refer the section 11.28
pcre2	10.4	BSD	Refer the section 11.21
zlib	1.3.1	zlib	Refer the section 11.22

libjpeg	9e	BSD	Refer the section 11.20
icu	74.2	Unicode	Refer the section 11.18
luasocket	3.1.0	MIT	Refer the section 11.23
Extended.Wpf.Toolkit	3.8.2	MS-PL	Refer the section 11.9
Humanizer.Core	2.14.1	MIT	Refer the section 11.30
log4net	3.0.3	Apache-2.0	Refer the section 11.10
Microsoft.Bcl.AsyncInterfaces	9.0.1	MIT	Refer the section 11.31
Microsoft.Bcl.HashCode	6.0.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.Analyzers	3.3.4	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.AnalyzerUtilities	3.3.4	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.Common	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.CSharp	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.CSharp.Features	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.CSharp.Workspaces	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.Elfie	1.0.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.Features	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.NetAnalyzers	9.0.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.Scripting.Common	4.12.0	MIT	Refer the section 11.31

Microsoft.CodeAnalysis.VisualBasic	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.VisualBasic.Workspaces	4.12.0	MIT	Refer the section 11.31
Microsoft.CodeAnalysis.Workspaces.Common	4.12.0	MIT	Refer the section 11.31
Microsoft.CSharp	4.7.0	MIT	Refer the section 11.31
Microsoft.Data.Sqlite.Core	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.DiaSymReader	2.0.0	MIT	Refer the section 11.31
Microsoft.DotNet.PlatformAbstractions	3.1.6	MIT	Refer the section 11.32
Microsoft.EntityFrameworkCore	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.EntityFrameworkCore.Abstractions	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.EntityFrameworkCore.Analyzers	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.EntityFrameworkCore.Relational	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.EntityFrameworkCore.Sqlite	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.EntityFrameworkCore.Sqlite.Core	3.1.32	Apache-2.0	Refer the section 11.31
Microsoft.Extensions.Caching.Abstractions	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Caching.Memory	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Configuration	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Configuration.Abstractions	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Configuration.Binder	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Configuration.FileExtensions	9.0.1	MIT	Refer the section 11.31

Microsoft.Extensions.Configuration.Json	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.DependencyInjection	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.DependencyInjection.Abstractions	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.DependencyModel	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.FileProviders.Abstractions	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.FileProviders.Physical	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.FileSystemGlobbing	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Logging	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Logging.Abstractions	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Options	9.0.1	MIT	Refer the section 11.31
Microsoft.Extensions.Primitives	9.0.1	MIT	Refer the section 11.31
Microsoft.NETCore.Platforms	1.1.0	MIT	Refer the section 11.31
Microsoft.Web.WebView2	1.0.2957.106	Ms-PL	Refer the section 11.33
Microsoft.Xaml.Behaviors.Wpf	1.1.135	MIT	Refer the section 11.34
NETStandard.Library	2.0.3	MIT	Refer the section 11.31
Newtonsoft.Json	13.0.3	MIT	Refer the section 11.12
NLog	5.4.0	BSD-3-Clause	Refer the section 11.13
Prism.Core	8.1.97	MIT	Refer the section 11.35
Prism.Unity	8.1.97	MIT	Refer the section 11.35

Prism.Wpf	8.1.97	MIT	Refer the section 11.35
SQLitePCLRaw.bundle_e_sqlite3	2.1.10	Apache-2.0	Refer the section 11.36
SQLitePCLRaw.core	2.1.10	Apache-2.0	Refer the section 11.36
SQLitePCLRaw.lib.e_sqlite3	2.1.10	Apache-2.0	Refer the section 11.36
SQLitePCLRaw.provider.dynamic_cdecl	2.1.10	Apache-2.0	Refer the section 11.36
SQLitePCLRaw.provider.e_sqlite3	2.1.2	Apache-2.0	Refer the section 11.36
System.Buffers	4.6.0	MIT	Refer the section 11.31
System.Collections.Immutable	9.0.1	MIT	Refer the section 11.31
System.ComponentModel.Annotations	5.0.0	MIT	Refer the section 11.31
System.Composition	9.0.1	MIT	Refer the section 11.31
System.Composition.AttributedModel	9.0.1	MIT	Refer the section 11.31
System.Composition.Convention	9.0.1	MIT	Refer the section 11.31
System.Composition.Hosting	9.0.1	MIT	Refer the section 11.31
System.Composition.Runtime	9.0.1	MIT	Refer the section 11.31
System.Composition.TypedParts	9.0.1	MIT	Refer the section 11.31
System.Configuration.ConfigurationManager	9.0.1	MIT	Refer the section 11.31
System.Data.DataSetExtensions	4.5.0	MIT	Refer the section 11.31
System.Diagnostics.DiagnosticSource	9.0.1	MIT	Refer the section 11.31
System.IO	4.3.0	MIT	Refer the section 11.31

System.IO.Pipelines	9.0.1	MIT	Refer the section 11.31
System.Linq.Async	6.0.1	MIT	Refer the section 11.31
System.Memory	4.6.0	MIT	Refer the section 11.31
System.Numerics.Vectors	4.6.0	MIT	Refer the section 11.31
System.Reflection.Metadata	9.0.1	MIT	Refer the section 11.31
System.Runtime	4.3.1	MIT	Refer the section 11.31
System.Runtime.CompilerServices.Unsafe	6.1.0	MIT	Refer the section 11.31
System.Runtime.InteropServices.RuntimeInformation	4.3.0	MIT	Refer the section 11.31
System.Runtime.Serialization.Primitives	4.3.0	MIT	Refer the section 11.31
System.Security.AccessControl	6.0.1	MIT	Refer the section 11.31
System.Security.Cryptography.Algorithms	4.3.1	MIT	Refer the section 11.31
System.Security.Cryptography.Encoding	4.3.0	MIT	Refer the section 11.31
System.Security.Cryptography.Primitives	4.3.0	MIT	Refer the section 11.31
System.Security.Cryptography.ProtectedData	9.0.1	MIT	Refer the section 11.31
System.Security.Permissions	9.0.1	MIT	Refer the section 11.31
System.Security.Principal.Windows	5.0.0	MIT	Refer the section 11.31
System.Text.Encoding.CodePages	9.0.1	MIT	Refer the section 11.31
System.Text.Encodings.Web	9.0.1	MIT	Refer the section 11.31
System.Text.Json	9.0.1	MIT	Refer the section 11.31

System.Threading.Channels	9.0.1	MIT	Refer the section 11.31
System.Threading.Tasks.Extensions	4.6.0	MIT	Refer the section 11.31
System.ValueTuple	4.5.0	MIT	Refer the section 11.31
Unity	5.11.10	Apache-2.0	Refer the section 11.14
Unity.Abstractions	5.11.7	Apache-2.0	Refer the section 11.14
Unity.Configuration	5.11.2	Apache-2.0	Refer the section 11.14
Unity.Container	5.11.11	Apache-2.0	Refer the section 11.14
WPFLocalizeExtension	3.10.0	MS-PL	Refer the section 11.37
XamlAnimatedGif	2.1.1	Apache-2.0	Refer the section 11.15
XAMLMarkupExtensions	2.1.3	MS-PL	Refer the section 11.16
NeoLua	0.9.17	Apache-2.0	Refer the section 11.11
luac54_32.exe	5.4.7.0	MIT	Refer the section 11.1
luac54_64.exe	5.4.7.0	MIT	Refer the section 11.1
@angular/animations	18.1.1	MIT	Refer the section 11.38
@angular/cdk	18.1.1	MIT	Refer the section 11.38
@angular/common	18.1.1	MIT	Refer the section 11.38
@angular/compiler	18.1.1	MIT	Refer the section 11.38
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@angular/elements	18.1.1	MIT	Refer the section 11.38

@angular/forms,	18.1.1	MIT	Refer the section 11.38
@angular/platform-browser	18.1.1	MIT	Refer the section 11.38
@angular/platform-browser-dynamic	18.1.1	MIT	Refer the section 11.38
@angular/router	18.1.1	MIT	Refer the section 11.38
@ngx-translate/core	15.0.0	MIT	Refer the section 11.39
@ngx-translate/http-loader	8.0.0	MIT	Refer the section 11.39
@popperjs/core	2.11.8	MIT	Refer the section 11.40
acorn	8.12.1	MIT	Refer the section 11.41
assert	2.1.0	MIT	Refer the section 11.42
bootstrap	5.3.3	MIT	Refer the section 11.43
jquery	3.6.0	MIT	Refer the section 11.44
monaco-editor	0.50.0	MIT	Refer the section 11.45
recast	0.23.9	MIT	Refer the section 11.46
rxjs	7.8.0	Apache-2.0	Refer the section 11.47
tslib	2.3.0	BSD Zero Clause	Refer the section 11.48
uuid	10.0.0	MIT	Refer the section 11.49
zone.js	0.14.3	MIT	Refer the section 11.50

## 11.1 LUA Plus / luac54\_32.exe / luac54\_64.exe

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## 11.2 SQLCIPHER

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## 11.4 mapm

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## 11.5 libpng

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## 11.6 libxml2

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## 11.9 Extended.Wpf.Toolkit

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## 11.15 XamlAnimatedGif

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## 11.16 XAMLMarkupExtensions

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## JSON parsing library (nlohmann/json)

File: vendor/json/upstream/single\_include/nlohmann/json.hpp (only for ICU4C)

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File: aclocal.m4 (only for ICU4C)  
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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/* *                                                                 */
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/* * component! It does however offer creation and editing functionality  */
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/* * (future modifications may include some more support for creation    */
/* *   and or editing)                                                  */
/* *                                                                 */
/* ***** */

```

## 11.20 libjpeg

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## 11.21 PCRE2

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
Email domain: gmail.com

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Written by: Zoltan Herczeg  
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## 11.22 zlib

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## 11.23 LuaSocket

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## 11.24 rxi/json.lua

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## 11.27 libcurl

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## 11.28 PCRE

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
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## 11.29 libjpeg

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## 11.30 Humanizer.Core

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### 11.31 dotnet (runtime / maintenance-packages / roslyn / efc core / symreader / core / corefx / standard / reactive)

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### 11.32 Microsoft.DotNet.PlatformAbstractions

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## 11.33 Microsoft.Web.WebView2

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## 11.34 Microsoft.Xaml.Behaviors.Wpf

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## 11.35 Prism.Core / Prism.Unity / Prism.Wpf

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## 11.36 SQLitePCL.raw

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## 11.38 angular

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## 11.39 ngx-translate (core / http-loader)

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## 11.40 floating-ui

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## 11.41 acorn

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## 11.42 commonjs-assert

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## 11.43 bootstrap

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## 11.44 jquery

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## 11.45 monaco-editor

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## 11.46 recast

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## 11.47 rxjs

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## 11.48 tslib

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## 11.49 uuid

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## 11.50 zone.js

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